



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 15

Complete if Known

Application Number	10/643,445
Filing Date	August 19, 2003
First Named Inventor	Paul F. Cote
Art Unit	3722
Examiner Name	Unknown
Attorney Docket Number	02044P

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
CL		US- 20020014967 A1	02-07-2002	Crane et al.	
		US- 4,044,231	08-23-1977	Beck et al.	
		US- 4,183,989	01-15-1980	Tooth	
		US- 4,446,204	05-01-1984	Kaule et al.	
		US- 4,511,616	04-16-1985	Pitts et al.	
		US- 4,534,398	08-13-1985	Crane	
		US- 4,584,529	04-22-1986	Aoyama	
		US- 4,631,222	12-23-1986	Sander	
		US- 4,631,223	12-23-1986	Sander	
		US- 4,652,015	03-24-1987	Crane	
		US- 4,869,778	09-26-1989	Cote	
		US- 4,943,093	07-24-1990	Melling et al.	
		US- 4,960,651	10-02-1990	Pettigrew et al.	
		US- 4,980,569	12-25-1990	Crane et al.	
		US- 5,016,919	05-21-1991	Rotondo	
		US- 5,042,842	08-27-1991	Green et al.	
		US- 5,043,201	08-27-1991	Cote	
		US- 5,082,842	01-21-1992	Widmer	
		US- 5,093,184	03-03-1992	Edwards	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
CL		DE 195 48 528 A**	06-26-1997	Giesecke & Devr		
		*also includes English language	Abstract			

Examiner Signature	/Cathy Lam/	Date Considered	09/01/2006
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By Maria E. Vega [MARIA E. VEGA]



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Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 12

of 15

Application Number	10/643,445
Filing Date	August 19, 2003
First Named Inventor	Paul F. Cote
Art Unit	3722
Examiner Name	Unknown

Attorney Docket Number 02044P

U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
CL		US- 5,112,672	05-12-1992	Kaule et al.	
		US- 5,113,062	05-12-1992	Fujita et al.	
		US- 5,190,318	03-02-1993	Mantegazza	
		US- 5,196,681	03-23-2003	Mantegazza	
		US- 5,265,916	11-30-1993	Coe	
		US- 5,279,403	01-18-1994	Harbaugh et al.	
		US- 5,284,363	02-08-1994	Gartner et al.	
		US- 5,308,992	05-03-1994	Crane et al.	
		US- 5,354,099	10-11-1994	Kaule et al.	
		US- 5,383,687	01-24-1995	Suess et al.	
		US- 5,388,862	02-14-1995	Edwards	
		US- 5,394,969	03-07-1995	Harbaugh	
		US- 5,417,316	03-23-1995	Harbaugh	
		US- 5,419,424	05-30-1995	Harbaugh	
		US- 5,447,335	09-05-1995	Haslop	
		US- 5,457,382	10-10-1995	Stein	
		US- 5,474,638	12-12-1995	Kohlhammer et al.	
		US- 5,486,022	01-23-1996	Crane	
		US- 5,516,153	05-14-1996	Kaule	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/643,445
		Filing Date	August 19, 2003
		First Named Inventor	Paul F. Cote
		Art Unit	3722
		Examiner Name	Unknown
		Attorney Docket Number	02044P
Sheet	3	of	5

U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
CL	US-5,535,871		07-16-1996	Harbaugh	
	US-5,543,911		08-06-1996	Jeffers	
	US-5,545,885		08-13-1996	Jagielinski	
	US-5,582,927		12-10-1996	Andricacos et al.	
	US-5,583,631		12-10-1996	Lazzerini	
	US-5,599,047		02-04-1997	Kaule et al.	
	US-5,601,931		02-11-1997	Hoshino et al.	
	US-5,614,824		03-25-1997	Dames et al.	
	US-5,639,126		06-17-1997	Dames et al.	
	US-5,697,649		12-16-1997	Dames et al.	
	US-5,786,587		07-28-1998	Colgate, Jr.	
	US-5,803,503		09-08-1998	Kaule et al.	
	US-5,949,050		09-07-1999	Fosbenner et al.	
	US-6,086,708		07-11-2000	Colgate, Jr.	
	US-6,146,773		11-14-2000	Kaule	
	US-6,168,851		01-02-2001	Kubota	
	US-6,255,948		07-03-2001	Wolpert et al.	
	US-6,316,082		11-13-2001	Tomkins et al.	
▼	US-6,336,988		01-08-2002	Enlow et al.	

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Examiner
Signature

/Cathy Lam/

Date
Considered

09/01/2006

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4

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Filing Date	August 19, 2003
First Named Inventor	Paul F. Cote
Art Unit	3722
Examiner Name	Unknown
Attorney Docket Number	02044P

U. S. PATENT DOCUMENTS

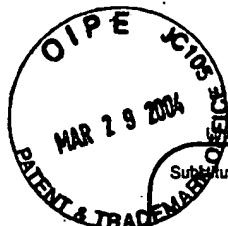
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of

5

Attorney Docket Number

Complete If Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Complete if Known
(Use as many sheets as necessary)		Application Number
		10/643,445
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		First Named Inventor
		Paul F. Cote
		Art Unit
		3722
		Examiner Name
		Unknown
Sheet	5	Attorney Docket Number
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NON-PATENT LITERATURE DOCUMENTS

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